

WHAT IS CLAIMED IS:

1. A developing agent to perform black development, which is used in combination with a color developing agent containing toner particles having 5 a chromatic coloring material, a first binder resin containing a polyester resin having a first acidic value, wax having a softening point higher than a softening point of the first binder resin, and wax having a softening point lower than the softening point 10 of the first binder resin, and

which contains toner particles having a black coloring material, a second binder resin containing a polyester resin having a second acidic value higher than the first acidic value, wax having a softening 15 point higher than a softening point of the second binder resin, and wax having a softening point lower than the softening point of the second binder resin.

2. A developing agent according to claim 1, wherein the polyester resin having the first acidic 20 value and the polyester resin having the second acidic value have a softening point of 100 to 150°C.

3. A developing agent according to claim 1, wherein the first acidic value is 6 to 12 KOHmg/g, and the second acidic value is 12 to 29 KOHmg/g.

25 4. A developing agent according to claim 1, wherein the polyester resin having the first acidic value has a weight-average molecular weight of 5,000 to

90,000, and the polyester resin having the second acidic value has a weight-average molecular weight of 5,000 to 60,000.

5 5. A developing agent according to claim 1,
wherein the polyester resin having the first acidic value has a number-average molecular weight of 5,000 to 90,000, and the polyester resin having the second acidic value has a number-average molecular weight of 2,000 to 4,000.

10 6. A developing agent according to claim 1,
further containing carrier particles each having a silane-coupling-processed surface and a silicone resin layer coating the silane-coupling-processed surface.

15 7. A developing agent according to claim 6,
wherein the silicone resin layer contains carbon.

20 8. A developing agent to perform color development, which contains toner particles having a chromatic coloring material, a first binder resin containing a polyester resin having a first acidic value, wax having a softening point higher than a softening point of the first binder resin, and wax having a softening point lower than the softening point of the first binder resin, and

25 which is used in combination with a black developing agent containing toner particles having a black coloring material, a second binder resin containing a polyester resin having a second acidic

value higher than the first acidic value, wax having a softening point higher than a softening point of the second binder resin, and wax having a softening point lower than the softening point of the second binder
5 resin.

9. A developing agent according to claim 8, wherein the polyester resin having the first acidic value and the polyester resin having the second acidic value have a softening point of 100 to 150°C.

10 10. A developing agent according to claim 8, wherein the first acidic value is 6 to 12 KOHmg/g, and the second acidic value is 12 to 29 KOHmg/g.

11. A developing agent according to claim 8, wherein the polyester resin having the first acidic
15 value has a weight-average molecular weight of 5,000 to 90,000, and the polyester resin having the second acidic value has a weight-average molecular weight of 5,000 to 60,000.

12. A developing agent according to claim 8, wherein the polyester resin having the first acidic
20 value has a number-average molecular weight of 5,000 to 90,000, and the polyester resin having the second acidic value has a number-average molecular weight of 2,000 to 4,000.

25 13. A developing agent according to claim 8, further containing carrier particles each having a silane-coupling-processed surface and a silicone resin

layer coating the silane-coupling-processed surface.

14. A developing agent according to claim 13, wherein the silicone resin layer contains carbon.

15. An image forming apparatus comprising:

5 a developing unit which opposes an image carrier, which contains a color developing agent containing toner particles having a chromatic coloring material, a first binder resin containing a polyester resin having a first acidic value, wax having a softening point higher than a softening point of the first binder resin, and wax having a softening point lower than the softening point of the first binder resin, and a black developing agent containing toner particles having a black coloring material, a second 10 binder resin containing a polyester resin having a second acidic value higher than the first acidic value, wax having a softening point higher than a softening point of the second binder resin, and wax having a softening point lower than the softening point of the second binder resin, and.

15 which forms a developing agent image by developing an electrostatic latent image formed on the image carrier;

20 a transfer unit to transfer the developing agent image onto a transfer medium; and a fixing unit which has a heating roller, a peeling roller separated from the heating roller,

a fixing belt looped between the heating roller and peeling roller, and a pressure roller capable of pressing the heating roller via the fixing belt, and which forms an image by fixing the transferred 5 developing agent image onto the transfer medium.

16. An apparatus according to claim 15, wherein the image has a glossiness of not more than 10..

17. An apparatus according to claim 15, wherein the polyester resin having the first acidic value and 10 the polyester resin having the second acidic value have a softening point of 100 to 150°C.

18. An apparatus according to claim 15, wherein the first acidic value is 6 to 12 KOHmg/g, and the second acidic value is 12 to 29 KOHmg/g.

15 19. An apparatus according to claim 15, wherein the polyester resin having the first acidic value has a weight-average molecular weight of 5,000 to 90,000, and the polyester resin having the second acidic value has a weight-average molecular weight of 5,000 to 60,000.

20 20. An apparatus according to claim 15, wherein the polyester resin having the first acidic value has a number-average molecular weight of 5,000 to 90,000, and the polyester resin having the second acidic value has a number-average molecular weight of 2,000 to 4,000.

25 21. An apparatus according to claim 15, further containing carrier particles each having a silane-coupling-processed surface and a silicone resin layer.

coating the silane-coupling-processed surface.

22. An apparatus according to claim 21, wherein the silicone resin layer contains carbon.